

WHAT IS CLAIMED IS:

1. Power-supply device for 12-volt electrical components which are installed in a motor vehicle, in particular for components of the lighting or indicator system, from an electrical-energy source the voltage of which is higher than the rated voltage of 12 volts of the components, including a protection network for their power supply by a source at their rated voltage, wherein the protection network includes additional components in order to produce a basic regulated power supply at 12 volts from the electrical-energy source the voltage of which is higher than the rated voltage of 12 volts, and in that the voltage reference for the regulated power supply is a Zener diode, in particular with a Zener voltage equal to 12 volts, or close to this voltage.

2. Power-supply device according to Claim 1, which includes a single additional active component consisting of a transistor compatible with the currents and the voltages of the power-supply network.

3. Power-supply device according to Claim 2, wherein the transistor is of the npn type.

4. Power-supply device according to Claim 3, wherein the base of the transistor is linked to the cathode of the Zener diode the anode of which is linked to earth, the collector of the transistor being linked to the cathode of a diode for protection against voltage inversions, the anode of this diode being linked to the positive terminal of the power supply, and the base of the transistor is, furthermore, linked to its collector via a resistor, while the emitter of the transistor is linked to the load and while a capacitor for filtering against the entry of induced

currents is wired in parallel between the emitter and earth.

5. Power-supply device according to Claim 1, wherein the electrical-energy source is pulsed.

5 6. Power-supply device according to Claim 5, wherein the electrical-energy source comprises a chopper.

7. Power-supply device according to Claim 1, wherein the voltage of the electrical-energy source is
10 42 volts.

8. Power-supply device according to Claim 5, wherein the duty cycle of the pulsed source is of the order of 1/9.

9. Vehicle-headlight attitude corrector, which
15 includes a power-supply device according to Claim 1.